

#### Product Life cycle management for innovative Seed companies



# Versioning:

Version	Date	Author	Main changes
1.0	14/10/2024	Maryam	First published version

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### Setup

There are eight sections in the setup:

- Access Policy
- Geographies
- Crops
- Currencies
- Custom Fields
- Market (in development)
- Warehouses
- Users
- Options

# **Access Policy Module**

In this module, you can **view, add, and manage roles** and define what each role and see and do in each module of the system. Here is how to add a role and define his access to modules:

- 1. Click on "Add New Role" button
- 2. Enter the role name and confirm
- 3. In roles table, you can manage and control access rights of all the roles.

There are currently **six modules** (please see user manual for detailed explanations on them):

- Contacts
- PDF (Catalogue)
- Variety
- Trial
- User
- Warehouse

# Within each module, depending on it's type, there are eight or more access rights:

- List (the items) basic read-only right
- Create (add new item)
- Retrieve (details of an item) also basic read-only right
- Update & Partial Update (Edit)
- Destroy (Delete)
- Some modules have additional special access rights.
   For instance to different levels of custom fields, or to the information on breeders and suppliers of varieties. If you have any questions related to the access rights system, please get in touch with <u>SeedSoft customer</u> <u>service</u>.

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	> Variety (47)	~	×	×	~	×	2 PrManager	superusers	10
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Access policy	> User (37)	~	×	×	~	×	4 Masoud Role	masoud	10
ely Countries	> Warehouse (14)	~	×	×	~	×	5 Maciej test	m.bednarek	10
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8 Custom fields							7 javad_role_new	javad12345	10
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4. In the domain section, you can assign a role to a user and define **the geography** (you can define parents and subcategories in the geography module. Then in access policy, you have this option to either select multiple items individually, or simply select one parent that includes all the necessary geographies) and **crops/crop levels** to which each role has access to.



If you don't give a user any crops or geographies they'll only have access to items individually released to them – for instance only to trials where they are marked as an 'External coordinator'. This is particularly useful if you want to give access to SeedSoft to people outside of your organization.

# **Geography Module**

In this section, the admin can view, add, and manage geographies (city, region, county, etc) used in the system. Each geography (apart from 'the World') should have a parent. A typical structure could look like:

• World>Americas>USA>Florida>Bay

or

• World>Asia>ME>Bahrain

Please note that the number of levels is unlimited and you can enter information (for instance trials or PLC) at every level. This gives a great flexibility to adjust the structure to the needs of the organization.

Finally Geographies like most other concepts in SeedSoft can be archived (if for instance your company leaves a certain market). Before archiving, you must ensure that **no related items** need to be archived. For example, a geography cannot be archived if there is at least one active trial, unarchived organization, unarchived sub-geography, or unarchived warehouse associated with it.

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Trials		_					
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E Custom fields	Benin	bj	World	/ 🗉			
Market	Botswana	bw	World	/ 🗉			
Warehouses	Burkina Faso	bf	West Africa	/ 🗉			
<b>꼺</b> Users						Total Rows: 84	
Ontions							

# **Crops Module**

Through this module, you can view and manage **crops**. By clicking on each crop, you can see and edit

- General info (common name, crop family)
- Segments
- Other custom fields
- Traits relevant for this crop

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Custom fields Custom fields Market Warehouses Students	AAACrope Varieties View varieties of the crop	Search field

#### Edit crop

By clicking on edit buttons in the crop features and segments, you can edit the related information in each section.

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	Global name serial no Seed type	Coded reference Supplier name Supplier id Global cr	op Crop family Crop segment

# Traits

In traits, you can view and add new traits to the crop. There are five types of traits:

• **Multi-select:** Gives a selection with the possibility to select multiple options. For instance planting in February, March and April.

**Single Select:** Gives a selection with the possibility to select only 1 option. For instance: Yes or No

**Numerical:** Meant to collect and display numerical values (if needed many) such as the weight or amount of seeds/ crops, days, etc.

Text traits: Text input.

**Date traits:** Date input (selection from a calendar)

Access options define if the trait is used to:

- 1. Describe a variety (in a catalogue): 'web'
- 2. Observe a variety in the mobile app: 'mobile'
- 3. Or is not needed anymore: 'archive'.
- Organize the traits in the data grid table by assigning an order (rank) to them. We recommend ordering them with a gap of 10 (10, 20, 30, 40...) so that it's easy to add a trait inbetween at a later stage if needed.
- You can also group traits as per your wish. For instance you can choose to group them as related to: plant, fruit, disease, post-harvest

- Legend is the description for the trait and it's also visible in mobile app. It's main use is to inform the observer on how to mark the trait.
- Protocol refers to a specific selection of traits assessed in a trial. For example, depending on skills of an observer or needs of a particular trial, one protocol might have only a few traits focusing on fruit quality and yield, while another might be much more extensive and cover diseases, plant behaviour, seed germination and post-harvest performance.



Create trait		×
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**Update:** You can now duplicate a trait, but please note that the **protocol must be selected** before completing the duplication.

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© Currencies		0	Numerical	Number of flower buds (for Artichoke)	6 /		Web	default		
문 Custom fields		0	Text	Region	6 /	Post harvest	Web	default		
Market		0	Date	Maryamdatetrait	6/	End Season	Web	default		
Marehouses		0	Text	E SHAPE	0 /	End Season	Web	default		
<b>路</b> Users									Rows per page: 50 +	1-50 of 103 < >
I Options										

# **Currencies Module**

In this section you can view list of valid currencies to use and their countries. You can also add or edit each currency.

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Choose a module					
<ul> <li>Varieties</li> </ul>	Currencies You can see an	d manage currencies	here		♠ > Currencies
Catalogues	+ ADD RECORD III COLUMNS	∓ FILTERS ■ D	ENSITY 🛃 EXPORT		
Trials	Currency	Symbol	Country	Actions	
Observations	Afghan afghani	AFN			
C Inventory	CFA Franc	XAF		1	
Organizations	Chinese Yuan Renminbi	CNY	China	1	
Setup ^	Egyptian pound	EGP	Egypt	1	
C Access policy	European euro	EUR		/	
Countries	Indian rupee	INR	India	/	
Crops	Iranian rial	IRR	Iran	/	
Custom fields	Iraqi dinar	IQD	Iraq	/	
Market	Kenyan Shilling	KES	Kenya	/	
向 Warehouses	Mauritius Rupee	MUR	Mauritius	/	
😩 Users	Russian ruble	RUB		/	
					Total Rows: 17

# **Custom Fields Module**

If you need to add **custom fields in various sections** of the system such as crops, varieties, trials, etc., you can do so through this section. You can also define the **type** of the new custom field and access level required to see or edit the field.

SeedS¢ft 🔳							en • P :
Choose a module Varieties Catalogues	Custom fields You can see and manage Custom fields here						Custom fields
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Warehouses     Werehouses     Users	→         + color edit.         (18)         0           →         MyField3         (1)         -           →         + new test         (1)         -	SingleSelect Numerical MultiSelect	Internal -	- Unit: -, Range: 2 - 5.5, Decim	Yes Yes Yes	/ /	
					F	Rows per page: 50 *	1-9 of 9 < >

To add a new custom field, click on the "add custom field" button. A modal will open that includes several fields:

- Model: Select the module (or part of a module) where you're adding this custom field.
- Type: Choose the type of custom field (multi-select, single-select, numerical, date, text, text area).
- Access: Select the access level of the custom field (internal, external, etc). Available custom field access levels are created and defined by the Seedsoft admin.

Create custom field	×	create custom field	~
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**Note**: In numerical custom fields, the final amount that other users set (in related module) should be between the minimum and maximum values defined in the custom field section.

# Market Module (in re-development)

### Warehouse Module

Through this section, the admin can add and manage warehouses and their entities, hierarchy, persons in charge (for each warehouse), and edit options.

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Choose a module S Varieties Catalogues	e a module Varieties Vou can see and manage warehouses here Catalogues							♠ > wa	arehouses
Trials     Observations	+ ADD RECORD III COLUMNS Name	Contraction Contr	Cess to warehouses		ware here Person in charge	Actions	Q Search		
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Crops Currencies Custom fields	Warehouse Jordan Warehouse - PLACEHOLDER	Nigeria Turkey	World World, Gambia	Crop Doctor Tir T Zirve Tic	EC / Crop Doctor-Oladi Jojo Tirrrr-Me B	/ •			
Market     Warehouses	Warehouse Switzerland Warehouse China	Iran China	World, Asia, Middle East	PTT J Sun	Pars Ta To(PTT)-Ras K Jason Sun-Jason Sun	/ 0			

**Note:** To have access to warehouses and the ability to edit them, a user must first have access to the geography in the domain section and to the warehouse in the access policy. If access is granted only in the domain section or vice versa, the user will not have access to the warehouses.

# **Users Module**

In this section, the admin registers and adds users who want to use the system or log in, along with their information (name, contact info such as email and phone, etc.). The admin can also control whether their contact info is displayed or not.

SeedSeft								en	• • •	
Choose a module		Users You can see and	I manage users here						↑ Vsers	
Catalogues		Admin can show/hide contact info								
<ul> <li>Observations</li> <li>Inventory</li> </ul>		Username	First name	Last name	Email	Hide Contacts Info	Contact primary name	Person	Phone	
Organizations		aaa aaaaaaaa	masoud	sd 7888	asd@sdf.ijhgj 78979@gmail.comdddv	×	new obb_maciej	new-please work bbb_maciej-Maciej Trialist	null	
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Geographies     Crops     Currencies		added alimamad	edit ali	affver2 mamad	sdf@ev.comsd ali.mamad@sef.com	×	Benyamin	Benyamin-Jon Sirrr	+9	
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Warehouses		Bassam	edited	new tqr	bassam.hajir@bancella.com	×	Benyamin	Benyamin-Jon Sirrr	+962795074507	

When you unlock the "access change," you can edit user information and send a password reset link to users:

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Choose	a module												
8	Varieties		Users You can see an	nd manage users here							<b>n</b> >	User	s
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6	Inventory		First name	Last name	Email	Hide Contacts Info	Contact primary name	Person	Phone		Action	ŝ	_
<u>ت</u>	Organizations		\$\$\$	sd	asd@sdf.ijhgj	$\checkmark$	new	new-please work	null	i	· •	∎	Î
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6	Crops		ali	mamad	ali.mamad@sef.com	×			-	i	· •	€	
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G	Warehouses		edited	new tqr	bassam.hajir@bancella.com	×	Benyamin	Benyamin-Jon Sirrr	+962795074507	0	· •	∎	

You can also assign this user to a person, and by doing so, the related organization and the user will be connected:

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# **Options Module**

This section provides the possibility to configure basic rules of the system based on your organization's needs and terminology.

Initially, you will see a default view of all options on one page. By using the drop-down menu, you can select your custom view.



### **Contact Types**

Here, you can determine whether each organization, depending on its type—such as customer, breeding individuals/entity, supplier, etc.—should be displayed and selectable in related fields like internal/external coordinator in trials, manager in trials, breeder in varieties, etc.

For instance, if you give access to all organizations with the "customer" type to an external/internal coordinator, all

# organizations with that type will be displayed in the list of external/internal coordinators.

Options       You can determine if all organization visible and selectable in the external coordinator         Organization type name       Visible as internal coordinator         Breeding Individuals/Entry Edited       X         Customer/Suppler       X         extrgic       X         Mamad contract       X         New contact type       X         Suppler       X         extrgic       X         Mamad contact       X         New contact type       X         Suppler       X         Visible as internal coordinator       Visible as external coordinator         New contact type       X         New contact type       X         Visible as the mail to the external coordinator       Customer/Suppler         external       X         Suppler       X         visible       X         Suppler       X         Catadopus       Suppler         Suppler       X	ons classifie al/internal of viete as manager × × v v v v v v v v v v v v v v v v v	ed as "custom coordinator lis Visible as customer Visi × × × × × × × × × × × × × × × × × ×	er" are tts. Visit vi	en Pries > Trials >
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Custom fields	•			
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Warehouses B I ∓ H2 \equiv \equiv \cong \alpha	B I ∓ H2			

#### **Product Life Cycles**

In this table, you can specify PLC details and define access for each one, as well as determine if they should be visible in varieties or trials. The colors for each PLC can also be defined using the color wheel.

roduct life cycles				+ ADD RECORD
Visible in variety	Possible in trial	Description	color	Actions
~	×			0
$\checkmark$	$\checkmark$			
~	$\checkmark$			
$\checkmark$	$\checkmark$			
~	$\checkmark$		1	0
~	×		136	221 216
			R	G B

As an example you might not want that varieties in breeding stage are shown in the trials, and obsolete varieties shouldn't be visible in trials and in the variety list anymore.

#### **Trial Status**

Depending on the trial and your organization's culture, you might have various trial statuses. In this table, you can define them and choose if they should be visible in the trial list and mobile app. The color for each status can also be defined, similar to the PLC.

Trial statuses				+ ADD RE	CORD
Status name	Visible in trial list	Visible in mobile app	color	Actions	
Create just now	~	×		ı	*
Saved	~	~		0.	
Mammad status	$\checkmark$	×	#48f718	0.	
Planned	~	~	#69ce75	0.	
Seeds received	~	$\checkmark$	#e1ec46	0.	
Completed	×	×	#262f73	0.	
Submitted	$\checkmark$	~		0	
Ongoing	$\checkmark$	~		ı	-

#### **Trial Protocols**

Add or define new protocols in this table and specify the crop to which each protocol will be assigned.

Trait protocols		+ ADD RECORD			
Protocol name	Crop	Description	Actio	ons	
default	EGGPLANT	Added by command	ľ	Ð	-
default	FENNEL	Added by command	ľ	€	
default	AAACrope	Added by command	1.	€	
default	AAASec	Added by command	i	Ŧ	
default	Alfalfa / Lucerne	Added by command	ľ	€	
default	Amaranth or Grain amaranth	Added by command	i	€	
default	ARTICHOKE	Added by command	ľ	€	
default	ASPARAGUS	Added by command	01	€	-

#### **Numerical Trait Units**

Add or define new units for numerical inputs, along with their displayed symbols.

Numerical trait u	nits		+ ADD RECORD
Unit name 🛧	: Symbol	Actions	
Meter	m	ľ	•
Centimeter	cm	0°	
Gram	gr	0°	
Count	Count	0°	
Kilogram	kg	i	
Doone Mammad	DMD	0*	
Day/Days	day/days	ľ	
Inch EN	in	ľ	-

### **Trait Groups**

Define and customize groups of traits and descriptions (if any) in trial groups.

Trait groups		+ ADD RECORD		
Group name	Description	Actions		
01. Plant		i		
02. Diseases		i		
03. Fruit		i		
04. Post harvest		ľ		

# **Trial Types**

Define and customize trial types, including assigning a customized color to each trial type.

Trial types			+ ADD RECORD
Type name	color	Actions	
Other		l'	
Regulatory		l'	
Mammad edited		1	
Screening	#f1c15b	1	
Pre-commercial	#83e5ec	l'	
Development	#2773ec	1.	

#### **Brands**

Any brands in the system can be added to this table, along with their logo and other specifications.

Brands						+ ADD RECORD
Name	Abbreviation	Text color	Accent color	Background color	Logo	Actions
Mammad Nemoone	MN	ok	ok	no	Ť.	ľ
ok						ľ
New brand						ľ